GLOSSARY

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- 2 Accessible Area is an area that can be easily reached or obtained. In many cases an area must be
- 3 physically accessible to perform a measurement. However, radioactivity may be measurable
- 4 even if an area is not physically accessible. See in this glossary *measurable radioactivity*.
- 5 **Action Level** is the numerical value that causes a decision maker to choose one of the alternative
- 6 actions. In the context of MARSAME, the numerical value is the radionuclide concentration or
- 7 level of radioactivity corresponding to the disposition criterion, and the alternative actions are
- 8 determined by the selection of a disposition option.
- 9 **Alternative Action** is the choice between two mutually exclusive possibilities. See in this
- 10 glossary decision rule.
- 11 **Ambient Radiation** is radiation that is currently present in the surrounding area. Ambient
- 12 radiation may include natural background, instrument background, intrinsic radiation from
- 13 surrounding materials, intrinsic radiation from the item(s) being measured, contamination, or
- radiation from nearby machines (e.g., x-ray machines when operating) depending on the local
- 15 conditions. Ambient radiation changes with location.
- 16 **Background Radiation** (as defined in Nuclear Regulatory Commission regulations) is radiation
- 17 from cosmic sources; naturally occurring radioactive material including radon (except as a decay
- product of source or special nuclear material); and global fallout as it exists in the environment
- 19 from the testing of nuclear explosive devices or from past nuclear accidents such as Chernobyl
- 20 that contribute to background radiation and are not under the control of the licensee.
- 21 "Background radiation" does not include radiation from source, byproduct or special nuclear
- 22 materials regulated by the Nuclear Regulatory Commission (10 CFR 20.1003).

- 23 **Biased Measurements** are measurements performed at locations selected using professional
- 24 judgment based on unusual appearance, location relative to known contamination areas, high
- 25 potential for residual radioactivity, and general supplemental information. Biased measurements
- are not included in the statistical evaluation of survey unit data because they violate the
- assumption of randomly selected, independent measurements. Instead, biased measurement
- results are individually compared to the action levels. Biased measurements are also called
- 29 judgment measurements (MARSSIM 2002).
- Calibration Function is the function that relates the net instrument signal to activity (e.g.,
- 31 relates counts to disintegrations or radiations).
- 32 **Categorization** is the act of determining whether M&E are impacted or non-impacted. This is a
- departure from MARSSIM where this decision was included in the definition of classification.
- Class 1 M&E are impacted M&E that have, or had, the following: (1) highest potential for, or
- known, radionuclide concentration(s) or radioactivity above the action level(s); (2) highest
- potential for small areas of elevated radionuclide concentration(s) or radioactivity; and (3)
- insufficient evidence to support reclassification as Class 2 or Class 3. Such potential may be
- 38 based on historical information and process knowledge, while known radionuclide
- 39 concentration(s) or radioactivity may be based on preliminary surveys. See in this glossary
- 40 Class 2, Class 3, classification, and impacted.
- 41 Class 2 M&E are impacted M&E that have, or had, the following: (1) low potential for
- radionuclide concentration(s) or radioactivity above the action level(s); and (2) little or no
- 43 potential for small areas of elevated radionuclide concentration(s) or radioactivity. Such
- potential may be based on historical information, process knowledge, and preliminary surveys.
- 45 See in this glossary Class 1, Class 3, classification, and impacted.

- 46 Class 3 M&E are impacted M&E that have, or had, the following: (1) little or no potential for
- 47 radionuclide concentrations(s) or radioactivity above background; and (2) insufficient evidence
- 48 to support categorization as non-impacted. See in this glossary Class 1, Class 2, classification,
- 49 impacted, and non-impacted.
- Classification is the act or result of separating impacted M&E or survey units into one of three
- designated classes: Class 1, Class 2, or Class 3. Classification is the process of determining the
- 52 appropriate level of survey effort based on estimates of activity levels and comparison to action
- levels, where the activity estimates are provided by historical information, process knowledge,
- and preliminary surveys. See in this glossary Class 1, Class 2, Class 3, and impacted.
- 55 **Clearance** is the removal of radiological regulatory controls from materials and equipment.
- 56 Clearance is a subset of release. See in this glossary *release*.
- 57 **Combined Standard Uncertainty** is the standard uncertainty of an output estimate calculated
- 58 by combining the standard uncertainties of the input estimates. The combined standard
- uncertainty of y is denoted by $u_c(y)$. See also in this glossary expanded uncertainty, input
- 60 estimate, measurement method uncertainty, output estimate, and standard uncertainty.
- 61 **Combined Variance** is the square of the combined standard uncertainty. The combined
- variance of y is denoted by $[u_c(y)]^2$. See in this glossary *combined standard uncertainty*.
- 63 **Concentration** is activity per unit volume (e.g., Bq/kg or pCi/g) or activity per unit area (e.g.,
- 64 Bq/m 2 or dpm/100 cm 2).
- 65 **Conceptual Model** is a description of a component or area to be surveyed and the associated
- radionuclides or radioactivity expected to be present. The initial conceptual model is based on
- 67 the results of the initial assessment. Additional data is used to update the conceptual model
- 68 throughout the development, implementation, and assessment of the disposition survey. See in
- 69 this glossary initial assessment.

- 70 Coverage Factor (k) is the value multiplied by the combined standard uncertainty $u_c(y)$ to give
- 71 the expanded uncertainty, U. See in this glossary combined standard uncertainty and expanded
- 72 uncertainty.
- 73 **Coverage Probability** is the approximate probability that the reported uncertainty interval will
- 74 contain the value of the measurand. See in this glossary *level of confidence* and *measurand*.
- 75 **Critical Value** in the context of radiation detection is the minimum measured value (e.g., of the
- instrument signal or the radionuclide concentration) required to give a specified probability that a
- positive (nonzero) amount of radioactivity is present in the material being measured. The critical
- value is the same as the critical level or decision level in publications by Currie (Currie 1968 and
- 79 NRC 1984).
- 80 **Critical Value** in the context of statistical testing is the value, which, if exceeded by the test
- statistic, results in rejection of the null hypothesis. See in this glossary *null hypothesis*.
- Data Life Cycle is the process of planning the survey, implementing the survey plan, and
- assessing the survey results prior to making a decision (MARSSIM 2002).
- 84 **Data Quality Objectives (DQOs)** are qualitative and quantitative statements derived from the
- 85 DQO process that clarify study technical and quality objectives, define the appropriate type of
- data, and specify tolerable levels of potential decision errors that will be used as the basis for
- 87 establishing the quality and quantity of data needed to support decisions (MARSSIM 2002).
- 88 **Data Quality Objectives Process** is a systematic strategic planning tool based on the scientific
- method that identifies and defines the type, quality, and quantity of data needed to satisfy a
- specific use (MARSSIM 2002). See also in this glossary data quality objectives.
- 91 **Data Quality Assessment (DQA)** is a scientific and statistical evaluation that determines
- 92 whether data are the right type, quality and quantity to support their intended use (EPA 2006b).

93	Decision Rule is a statement that describes a logical basis for choosing among alternative actions
94	(MARSSIM 2002). A theoretical decision rule is developed early in the planning process
95	assuming ideal data are available to support a disposition decision (see Chapter 3). An
96	operational decision rule is developed based on the measurements that will be performed as part
97	of the final disposition survey (see Chapter 4).
98	Detection Capability is a generic term describing the capability of a measurement process to
99	distinguish small amounts of radioactivity from zero. It may be expressed in terms of the
100	minimum detectable concentration. See in this glossary minimum detectable concentration.
101	Difficult-to-Measure Radioactivity is radioactivity that is not measurable until the M&E to be
102	surveyed is prepared. Preparation of M&E may be relatively simple (e.g., cleaning) or more
103	complicated (e.g., disassembly or complete destruction). Given sufficient resources, all
104	radioactivity can be made measurable; however, it is recognized that increased survey costs can
105	outweigh the benefit of some dispositions.
106	Discrimination Limit is the level of radioactivity selected by the members of the planning team
107	that can be reliably distinguished from the action level. The lower bound of the gray region
108	(LBGR) for Scenario A and the upper bound of the gray region (UBGR) for Scenario B are
109	examples of discrimination limits.
110	Disposition is the future use, fate, or final location for something.
111	Disposition Decision is the selection between alternative actions to determine acceptable future
112	use. In statistical decision making, when the null hypothesis is rejected based on the survey data
113	the decision maker is left with the alternative hypothesis. A failure to reject the null hypothesis
114	is not the same as demonstrating the null hypothesis is true. See in this glossary <i>null hypothesis</i> .
115	Disposition Survey is a radiological survey designed to collect information to support a

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disposition decision.

11/	Distinguishable from Background means that the detectable concentration of a radionuclide is
118	statistically different from the background concentration of that radionuclide in the vicinity of
119	the site or, in the case of structures, in similar materials using adequate measurement technology,
120	survey and statistical techniques (10 CFR 20.1003).
121	Energy Resolution is the quantifiable ability of a measurement method to distinguish between
122	radiations with different energies.
123	Environmental Radioactivity is radioactivity from the environment where the M&E are
124	located. Environmental radioactivity includes background radiation as well as inherent
125	radioactivity and radioactivity from nearby sources.
126	Evaluation Function is a mathematical expression that allows the user to compare options and
127	draw a conclusion or calculate a result.
128	Expanded Uncertainty is the product, U , of the combined standard uncertainty of a measured
129	value y and a coverage factor, k, chosen so that the interval from $y - U$ to $y + U$ has a desired
130	high probability of containing the value of the measurand. See in this glossary combined
131	standard uncertainty, coverage factor, and measurand.
132	Fluence is the number of photons or particles passing through a cross-sectional area. The
133	international standard (SI) unit for fluence is m ⁻² .
134	Frequency Plot is a chart plotting the number of data points against their measured values.
135	Graded Approach is the process of basing the level of application of managerial controls
136	applied to an item or work according to the intended use of the results and the degree of
137	confidence needed in the quality of the results. See in this glossary data quality objectives
138	process.
139	Gray Region is the range of radionuclide concentrations or quantities between the
140	discrimination limit and the action level. See in this glossary action level, discrimination limit,
141	lower bound of the gray region, and upper bound of the gray region.

142	Hard Data are quantitative data used to directly determine levels of radioactivity associated with
143	measurement results.
144	Impacted is a term applied to M&E that are not classified as non-impacted. M&E with a
145	reasonable potential to contain radionuclide concentration(s) or radioactivity above background
146	are considered impacted (10 CFR 50.2). See in this glossary background radiation and non-
147	impacted.
148	Inherent Radioactivity is radioactivity resulting from radionuclides that are an essential
149	constituent of the material being measured (e.g., ⁴⁰ K in fertilizer containing potassium).
150	Initial Assessment (IA) is an investigation to collect existing information describing materials
151	and equipment and is similar to the Historical Site Assessment (HSA) described in MARSSIM.
152	Input Quantity is any of the quantities in a mathematical measurement model whose values are
153	measured and used to calculate the value of another quantity, called the output variable.
154	Instrument Efficiency is the ratio between the instrument net reading and the surface emission
155	rate of a source under given geometrical conditions (ISO 1988). For a given instrument, the
156	instrument efficiency depends on the energy of the radiations emitted by the source. See in this
157	glossary source efficiency and total efficiency.
158	Interdiction is the authoritative refusal to approve or assent to an action.
159	Interdiction Survey is the collection of data to support an interdiction decision regarding M&E.
160	In general, interdiction surveys are used to accept or refuse to accept control of M&E that is
161	potentially radioactive. In some cases an interdiction survey may result in the impoundment of
162	radioactive M&E that represent an unacceptable risk to human health or the environment.
163	Interference is the presence of other radiation or radioactivity that hinders the ability to analyze
164	for the radiation or radioactivity of interest.

165	Intrinsic Radioactivity is radioactivity resulting from radionuclides that are an essential
166	constituent of the material being measured (e.g., ⁴⁰ K in fertilizer containing potassium).
167	Level of Confidence (p) is the approximate probability that the reported uncertainty interval will
168	contain the value of the measurand. See in this glossary coverage probability and measurand.
169	Lower Bound of the Gray Region (LBGR) is the radionuclide concentration or level of
170	radioactivity that corresponds with the lowest value from the range where decision errors are not
171	controlled for statistical hypothesis testing. For Scenario A the LBGR corresponds to the
172	discrimination limit. For Scenario B the LBGR corresponds to the action level. See in this
173	glossary action level, discrimination limit, gray region, Scenario A, and Scenario B.
174	Mathematical Model is the general characterization of a process, object, or concept in terms of
175	mathematics, which enables the relatively simple manipulation of variables to be accomplished
176	in order to determine how the process, object, or concept would behave in different situations.
177	Materials and Equipment (M&E) are items considered for disposition that include metals,
178	concrete, dispersible bulk materials, tools, equipment, piping, conduit, furniture, solids, liquids,
179	and gases in containers, etc. M&E are considered non-real property distinguishable from
180	buildings and land, which are considered real property. See in this glossary disposition.
181	Measurand is a particular quantity subject to measurement (ISO 1996).
182	Measurement Method Uncertainty is the parameter, associated with the result of a
183	measurement that characterizes the dispersion of the values that could reasonably be attributed to
184	the measurand (ISO 1996).
185	Measurement Quality Objectives (MQOs) are a statement of a performance objective or
186	requirement for a particular method performance characteristic (MARLAP 2004).

187	Measurable Radioactivity is radioactivity that can be quantified using known or predicted
188	relationships developed from historical information, process knowledge or preliminary
189	measurements as long as the relationships are developed, verified, and validated as specified in
190	the data quality objectives (DQOs) and measurement quality objectives (MQOs).
191	Median is the middle value of the data set when the number of data points is odd, or the average
192	of the two middle values when the number of data points is even.
193	Minimum Detectable Activity (MDA) is the minimum detectable value of activity for a
194	measurement. See in this glossary minimum detectable value.
195	Minimum Detectable Concentration (MDC) is the minimum detectable value of the
196	radionuclide or radioactivity concentration for a measurement. See in this glossary <i>minimum</i>
197	detectable value.
198	Minimum Detectable Value is an estimate of the smallest true value of the measurand that
199	ensures a specified high probability, $1-\beta$, of detection. This definition presupposes that an
200	appropriate detection criterion has been specified (e.g., critical value). See in this glossary
201	measurand and critical value.
202	Minimum Quantifiable Concentration (MQC) is the smallest concentration or quantity of
203	radioactivity the measurement method will indicate within a specified relative standard
204	deviation.
205	Non-impacted is a term applied to M&E where there is no reasonable potential to contain
206	radionuclide concentration(s) or radioactivity above background (10 CFR 50.2). See in this
207	glossary background radioactivity and impacted.
208	Null Hypothesis, or baseline condition, is a tentative assumption about the true, but unknown,
209	radionuclide concentration or level of radioactivity that can be retained or rejected based on the
210	available evidence. When hypothesis testing is applied to disposition decisions, the data are used
211	to select between a presumed baseline condition (the null hypothesis) and an alternate condition

212213	(the alternative hypothesis). The null hypothesis is retained until evidence demonstrates with a previously specified probability that the baseline condition is false.
214215216	Output Quantity is the quantity in a mathematical measurement model whose value is calculated from the measured values of other quantities in the model. See in this glossary <i>input quantity</i> .
217218219220	Planning Team is the group of people who perform the DQO process. Members include the decision maker (senior manager), site manager, representatives of other data users, senior program and technical staff, someone with statistical expertise, and a quality assurance and quality control advisor (such as a QA manager) (EPA 2000a).
221222223	Posting Plot is a map of the survey unit with the data values entered at the measurement locations. This type of plot potentially reveals heterogeneities in the data, especially possible patches of elevated contamination.
224225226	Preliminary Survey is any survey performed prior to the disposition survey in MARSAME, and is generally performed to provide information required to support the design of the final survey. See also in this glossary <i>disposition survey</i> .
227228229230231	Process Knowledge is information concerning the characteristics, history of prior use, and inherent radioactivity of the materials and equipment being considered for release. Process knowledge is obtained through a review of the operations conducted in facilities or areas where materials and equipment may have been located and the processes where the materials and equipment were involved.
232233234235	Radioactive Materials consist of any material, equipment or system component determined or suspected to contain radionuclides in excess of inherent radioactivity. Radioactive material includes activated material, sealed and unsealed sources, and substances that emit radiation. See in this glossary <i>inherent radioactivity</i> .

236	Radiological Controls are any means, method or activity (including engineered or
237	administrative) designed to protect personnel or the environment from exposure to a radiological
238	risk.
239	Radionuclides or Radiations of Concern are radionuclides or radiations that are present at a
240	concentration or activity that poses an unacceptable risk to human health or the environment. In
241	MARSAME, the term radionuclides or radiations of concern is used to describe the radionuclides
242	or radiations that are actually measured during the disposition survey. See also in this glossary
243	radionuclides or radiations of potential concern and disposition survey.
244	Radionuclides or Radiations of Potential Concern are radionuclides or radiations that are
245	identified during the initial assessment as potentially being associated with the M&E being
246	investigated. See also in this glossary initial assessment.
247	Ratemeter is an instrument that indicates the counting rate of an electronic counter. In the
248	context of radiological measurements, a ratemeter displays the counting rate from a radiation
249	detector. The averaging time for calculating the rate is determined by the time constant of the
250	meter. See in this glossary scaler.
251	Recycle is beneficial reuse of constituent materials incorporated within the M&E. A hammer
252	that is melted down as scrap metal so the component metals can be reused is an example of
253	recycle.
254	Reference Material is material of similar physical, radiological, and chemical characteristics as
255	the M&E considered for disposition. Reference material provides information on the level of
256	radioactivity that would be present if the M&E being investigated had not been radiologically
257	impacted. See in this glossary impacted.
258	Relative Standard Uncertainty is the ratio of the standard uncertainty of a measured result to
259	the result itself. The relative standard uncertainty of x may be denoted by $u_r(x)$. See in this
260	glossary standard uncertainty.

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261	Release is a reduction in the level of radiological control, or a transfer of control to another
262	party. Examples of release include clearance (i.e., unrestricted release of materials and
263	equipment to the public sector), recycle, reuse, disposal as waste, or transfer of control of
264	radioactive M&E from one authorized user to another. See also in this glossary reuse, recycle,
265	restricted release, and clearance.
266	Release Survey is a type of disposition survey designed to collect information to support a
267	release decision. See also in this glossary disposition survey and release.
268	Restricted Release is a reduction in the level of radiological control, or transfer of control to
269	another party, where restrictions are placed on how the released items will be used or transferred.
270	Maintaining a tool crib in a radiologically controlled area restricts reuse of those tools to that
271	radiologically controlled area, and tools returned to the tool crib represent a restricted release of
272	those tools.
273	Reuse is the continued use of M&E for their original purpose(s). An example of reuse is a
274	hammer that continues to be used as a hammer.
275	Ruggedness is the relative stability of a measurement technique's performance when small
276	variations in method parameter values are made.
277	Scaler is an electronic counter that displays the aggregate of a number of signals, which usually
278	occur too rapidly to be recorded individually. In the context of radiological measurements, a
279	scaler records the number of counts from a radiation detector over a specified time interval. See
280	in this glossary ratemeter.
281	Scenario A uses a null hypothesis that assumes the level of radioactivity associated with the
282	M&E exceeds the action level. Scenario A is sometimes referred to as "presumed not to
283	comply" or "presumed not clean."

284	Scenario B uses a null hypothesis that assumes the level of radioactivity associated with the
285	M&E is less than or equal to the action level. Scenario B is sometimes referred to as
286	"indistinguishable from background" or "presumed clean."
287	Secular Equilibrium is the condition in which the precursor radionuclide in a decay series has a
288	longer half-life than any subsequent members of the series. Secular equilibrium is achieved
289	when the activities for all members of the decay series are equal to the activity of the precursor
290	radionuclide.
291	Segregation is the process of separating or isolating from a main body or group. In the context
292	of disposition surveys, segregation is based on the physical and radiological attributes of the
293	M&E being investigated and is used to help control measurement method uncertainty.
294	Sensitivity Coefficient for an input estimate, x_i , used to calculate an output estimate,
295	$y=f(x_1, x_2,, x_N)$, is the value of the partial derivative, $\partial f/\partial x_i$, evaluated at $i=x_1, x_2,, x_N$. The
296	sensitivity coefficient represents the ratio of the change in y to a small change in x_i .
297	Sentinel Measurement is a biased measurement performed at a key location to provide
298	information specific to the objectives of the Initial Assessment (IA).
299	Significance Level is, in the context of a hypothesis test, a specified upper limit for the
300	probability of a Type I decision error.
301	Sign Test is a non-parametric statistical test used to evaluate disposition survey results if the
302	radionuclide being measured is not present in background, or is present at such a small fraction
303	of the action level as to be considered insignificant.
304	Smear is a non-quantitative test for the presence of removable radioactive materials in which the
305	suspected surface or area is wiped with a filter paper or other substance, which is then tested for
306	the presence of radioactivity. The surface area tested may be related to the release criterion.
307	Smear is also referred to as a smear test, swipe, or wipe.

308	Soft data are qualitative and/or quantitative data that do not directly determine levels of
309	radioactivity. Soft data provide information that is used to infer or deduce knowledge
310	concerning the levels of radioactivity in materials and equipment.
311	Source Efficiency is the ratio between the number of particles of a given type above a given
312	energy emerging from the front face of a source or its window per unit time and the number of
313	particles of the same type created or released within the source (for a thin source) or its
314	saturation layer thickness (for a thick source) per unit time (ISO 1988). See also in this glossary
315	instrument efficiency and total efficiency.
316	Specific Activity is the radioactivity per unit mass for a specified radionuclide.
317	Specificity is the ability of the measurement method to measure the radionuclide of concern in
318	the presence of interferences.
319	Spectrometry is a measurement across a range of energies. The measurement of alpha particles
320	by energy is called alpha spectrometry.
321	Spectroscopy is the measurement and analysis of electromagnetic spectra produced as the result
322	of the emission or absorption of energy by various substances. The measurement of gamma-ray
323	emissions from a substance is called gamma spectroscopy.
324	Standard Operating Procedure (SOP) is a written document that details the method for an
325	operation, analysis, or action with thoroughly prescribed techniques and steps, and that is
326	officially approved as the method for performing certain routine or repetitive tasks (MARSSIM
327	2002).
328	Standard Uncertainty is the uncertainty of a measured value expressed as an estimated standard
329	deviation, often called a "1-sigma" (1σ) uncertainty (MARLAP 2004). The standard uncertainty
330	of a value x is denoted by $u(x)$.

331	Standardized Initial Assessment is a set of instructions or questions that are used to perform
332	the initial assessment, usually documented in a standard operating procedure. See also in this
333	glossary initial assessment and standard operating procedure.
334	Structures are buildings or other objects constructed from several parts.
335	Surficial Radioactive Material is radioactive material distributed on any of the surfaces of a
336	solid object. Surficial radioactive material may be removable by non-destructive means (such as
337	casual contact, wiping, brushing, or washing) or fixed.
338	Surrogate Measurement is a measurement where one radionuclide is quantified and used to
339	$demonstrate\ compliance\ with\ the\ release\ criterion\ for\ additional\ radionuclide(s)\ based\ on\ known$
340	or accepted relationships between the measured radionuclide and unmeasured radionuclides.
341	Survey Unit for M&E is the specific lot, amount, or piece of equipment on which measurements
342	are made to support a disposition decision concerning the same specific lot, amount, or piece of
343	equipment.
344	Total Efficiency is the product of the instrument efficiency and the source efficiency. See in
345	this glossary instrument efficiency and source efficiency.
346	Type I Decision Error occurs when the null hypothesis is rejected when it is actually true. The
347	Type I decision error rate, or significance level, is represented by α . See in this glossary $null$
348	hypothesis and significance level.
349	Type II Decision Error occurs when the null hypothesis is not rejected when it is actually false.
350	The Type II decision error rate is denoted by β . See in this glossary <i>null hypothesis</i> .
351	Unrestricted Release is the removal of radiological regulatory controls from materials and
352	equipment. Clearance is a subset of release. See in this glossary release and clearance.

353	Upper Bound of the Gray Region (UBGR) is the radionuclide concentration or level of
354	radioactivity that corresponds with the highest value from the range where decision errors are not
355	controlled for statistical hypothesis testing. For Scenario A the UBGR corresponds to the action
356	level. For Scenario B the UBGR corresponds to the discrimination limit. See in this glossary
357	action level, discrimination limit, gray region, Scenario A, and Scenario B.
358	Volumetric Radioactive Material is radioactive material that is distributed throughout or within
359	the materials or equipment being measured, as opposed to a surficial distribution. Volumetric
360	radioactive material may be homogeneously (e.g., uniformly activated metal) or heterogeneously
361	(e.g., activated reinforced concrete) distributed throughout the M&E.
362	Wilcoxon Rank Sum (WRS) Test is a non-parametric statistical tests used to evaluate
363	disposition survey results if the radionuclide being measured is present in background by
364	comparing the results to measurements performed using an appropriately chosen reference
365	material.

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